

Batch Release Certificate

Product name: Dextran 20 Ultra

Specification No.: 50003

Batch No.: xxxxxx

Manufacturing date: mmmm_yyyy

Retest date (5 years): mmmm_yyyy

Manufacturing sites: Pharmacosmos A/S, Roervangsvej 30, DK-4300 Holbaek, Denmark

DKMA* No.: 254629

GMP certificate No.: DK API-H 00042914, DK API-V 00042914

FDA establishment No.: FEI 3002807874

FDA facility classification: Acceptable

EDQM* certificate No.: Certificates for Dextran 1, 40, 60 & 70 Ph.Eur. available

Method:	Parameter:	Results of analysis:	Limits:
–	Description:	Complies	White or almost white
EP	Identification:	Complies	** Complies
EP	Loss on drying (105°C, 5h), % w/w:	x.x	*** ≤7.0
EP	Absorbance (at 375 nm, 10% sol., 1 cm)	x.xx	≤0.12
EP	Specific rotation, (+/-) °:	+x	+191 – +201
EP	Nitrogen, ppm:	x	<110
LI030-1	Average molecular mass, Mw:	x,xxx	17,000 – 23,000
LI030-1	Mw/Mn:	x.x	≤1.5
EP	Sulphated ash, % w/w:	x.x	≤0.3
EP	Bacterial endotoxins, IU/g:	x	<25
EP	Microbial contamination, cfu/g:	Complies	≤100

This is a well characterized dextran fraction suited for membrane characterization. A molecular weight distribution curve performed from size exclusion chromatography is attached to this Batch Release Certificate

We hereby confirm that no class 1, class 2 and class 3 solvent, cf. EP 5.4 and USP <467> Residual solvents is used in the manufacturing of this product.

*) EDQM refers to 'European Directorate for the Quality of Medicines and Healthcare'. DKMA refers to 'Danish Health and Medicines Authority'

***) The identification of the product is assured through strict adherence to established GMP rules throughout the manufacturing processes.

****) Due to the hygroscopic nature of the powder, loss on drying may change during storage. We recommend keeping small packs (100 and 500g) well closed and protected against moisture.

Certificate of Conformity

I hereby certify that the above information is authentic and accurate. This actual batch has been manufactured, including packaging and quality control at the above mentioned site in compliance with the GMP requirements for active starting materials and with the above mentioned specifications. The batch processing, packaging and analysis records were reviewed and found to be in compliance with GMP.

Date (dd.mm.yyyy):

 Qualified Person, Heidi Skjødt Andersen, M.Sc. Pharm